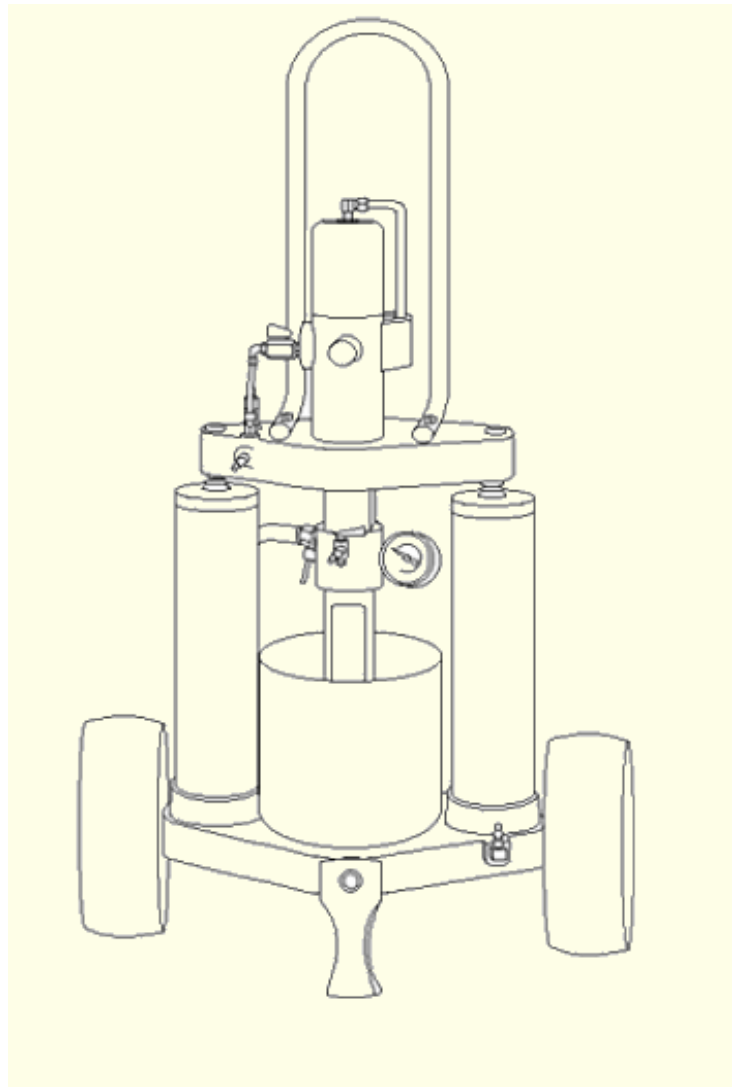

Owner's Manual:

Air Ram Bucket Pump



By ValvePro Inc.

We trust you will find the lessons detailed in this program beneficial for personnel when maintaining the valves at your facility. Should you have any questions regarding any of these procedures, or if you know of any successful procedures you would like to share, please contact us at:

Sealweld Corporation

106, 4116-64 Ave. S.E., Calgary, Alberta, Canada T2C 2B3
Telephone: 1-403-236-0043 Fax: 1-403-236-5487
TOLL FREE 1-800-661-8465
Email: dean@sealweld.ca
Web Site: <http://www.sealweld.ca>

ValvePro® Inc.

102, 4116-64 Ave. S.E., Calgary, Alberta, Canada T2C 2B3
Telephone: 1-403-236-5487 Mon – Fri 08:00 – 17:00 MST
Fax: 1-403-236-5487
Email: support@valvepro.com
Web Site: <http://www.valvepro.com>

The information in this handbook is intended as a guide only.
Always consult the valve manufacturers recommended maintenance procedures.

No warranty is written or implied.

Use of product or company names is for reference only.

Sealweld®, ValvePro®, ACTIV-8®, SuperGun® and FLOW WOLF® are registered trademarks and/or patents of Sealweld Corporation.

Glossary of Valve Terms

Copyright © Grove Valve & Regulator Company, 1980, 1993.
Reproduced courtesy of Grove® Valve & Regulator Company.

Microsoft is a registered trademark and Windows and Word for Windows are trademarks of Microsoft Corporation. Adobe® and Acrobat® are registered trademarks of Adobe Systems Incorporated.

MADE IN CANADA

This manual was produced by *VALVEPRO INC.* using *Doc-To-Help*®, by WexTech Systems, Inc.

Table of Contents

1 – Read This First	1
Air Ram Bucket Pump Owner's Manual.....	1
2 - Loading Instructions	3
How To Load An Air Ram Bucket Pump.....	3
3 - Safety Considerations	5
Air Ram Bucket Pump.....	5
4 - Operating Instructions	7
Air Ram Bucket Pump.....	7
Care of an Air Ram Bucket Gun	7
5 - Troubleshooting Hints	9
Air Ram Bucket Pump.....	9
Possible Causes of Seized Threaded Stem Plug Valves	9
Troubleshooting Tips.....	9
6 - Repair Parts	11
How to Order Air Ram Bucket Pump Parts.....	11
Air Motor Parts Breakdown	16
Follower Detail.....	17
7 - Warranty Information	19
Air Ram Bucket Pump.....	19
Contact Us	19
Sealweld Corporation – Canada	19
Sealweld (USA), Inc.....	20
ValvePro® Technical Support.....	20
8 - About This Manual	21
Trademarks and Patents.....	21
Glossary of Terms	23

This page intentionally blank.

1 – Read This First

Air Ram Bucket Pump Owner's Manual

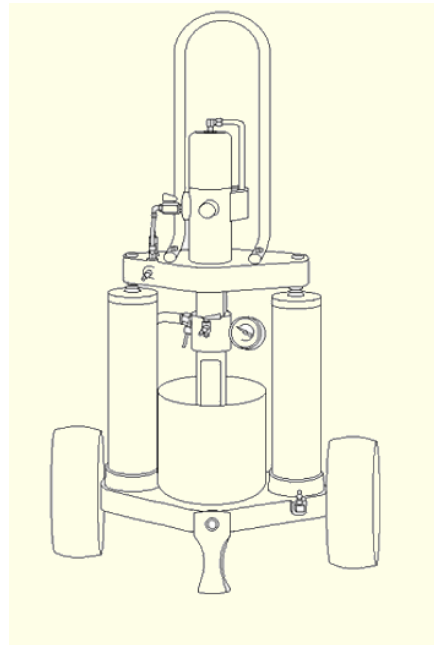
The Air Ram Bucket Gun is a pneumatic, 100 to 1, plunger style valve sealant pump.

Read this manual completely BEFORE operating the pump.

- 15,000 psi - MAXIMUM DISCHARGE
- 100 x inlet air pressure
- Pumping rates variable - approximately 1 pound in 16 minutes

Measure how far the follower plate has traveled to determine quantity pumped, 3/4" = approximately 1 pound.

Most problems can be eliminated by peaking the sealant in the new pail and bleeding all air out of system through bleed valve.



Air Ram Bucket Gun

This page intentionally blank.

2 - Loading Instructions

How To Load An Air Ram Bucket Pump

NOTE: ALWAYS wear eye protection when operating pressure generating equipment.

1. Open ram needle valve # 8. This will allow compressed air to escape the upper assembly.
2. Attach air hose to lower ram elbow. (Keep hands clear of pump assembly as it will rise rapidly).
3. After upper assembly has been raised, close # 8 ram needle valve. This will allow the upper assembly to remain in the raised position. Detach air supply.
4. Attach can shield # 76 to 10 pound pail of valve sealant.
5. Remove lid from can and peak the sealant to reduce trapped air.
6. Attach pail by tipping approximately 45° degrees while lifting it onto the follower plate # 34 to reduce trapped air.
7. Open ram needle valve # 8. Watch that fingers do not get caught as the pail settles on the pump base. Align the pail in the groove.
8. Make sure the groove which the pail rests in is clean and without buildup. The pail may rupture if it is not aligned properly in the groove.
9. Open # 67 vent valve and # 66 valve screw. This will allow air to escape as the pump assembly settles into the pail.
10. With ram needle valve # 8 open and # 3 air motor throttle valve closed, attach air supply at inlet air nipple. Upper pump assembly will begin to lower itself. Watch that fingers do not get caught as the pail settles on the pump base and align pail in groove.
11. Once pail has settled onto base and follower plate has settled into the pail of sealant, open the air motor throttle valve slightly and allow motor to run slowly. Sealant will begin to escape out of the vent valve # 67. Catch the escaping sealant on the pail lid or a similar object.
12. When the sealant flows with no air bubbles, close both # 67 vent valve and # 66 valve screw. If the pump has been properly primed, the pressure gauge will begin to move. Close release valve # 83 and pressure should begin to climb if pump has been properly primed. Should air-lock occur and pump will not build pressure, repeat from step number 8 until all air is vented.
13. Open throttle valve # 3 and pump pressure should continue building until it reaches 100 times the inlet air pressure (i.e. 100 psi into pump = 10,000 psi discharge pressure) at which point the air motor will slow and stall. The sealant discharge pressure will remain steady until release valve # 83 is opened.
14. To remove empty pail, elevate the pump assembly as in Steps 1, 2 & 3 and tip pail until it breaks free of follower plate. If pail will not break free, remove as follows: open vent valve #

67 and # 66 valve screw. Connect the air supply to the air nipple on vent valve # 67 and the compressed air will blow the pail off the follower plate.

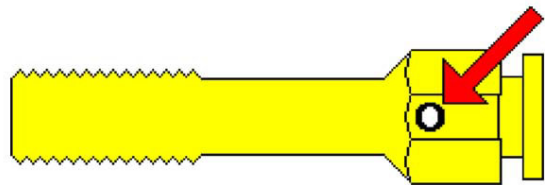
3 - Safety Considerations

Air Ram Bucket Pump

This is a deadly weapon! The 1/8" x 3/4" pin (see arrow) has already gone completely through one NGPL employee. Be on the alert for a silver, four inch, lubricating fitting with a hole drilled part way through the hex head. It may hit you next! Destroy this villain on sight! Replace with similar device without pin.

Reprinted from NGPL Safety & Training Bulletin

WANTED!



Dangerous One Piece Fitting

NOTE: Our man made it, but he is rounding up a posse to find all these bad guys. He needs your help.

Before looking for the pin, depress the flapper check to relieve trapped pressure.

This page intentionally blank.

4 - Operating Instructions

Air Ram Bucket Pump

See "How To Load An Air Ram Bucket".

Care of an Air Ram Bucket Gun

1. The biggest problem is caused by not bleeding off the air pocket when loading a new pail. Take your time, bleed lots of sealant off before closing the by-pass valve.
2. Keep the sealant clean, do not load on a bucket that is dirty.
3. Dirt and foreign material will damage seating surfaces in downtube assembly.
4. Repair Kits are **VERY EXPENSIVE**. We do not sell individual parts any longer.
5. **DO NOT** leave Valve Cleaner in the gun for a long time, switch to sealant on a regular basis.

This page intentionally blank.

5 - Troubleshooting Hints

Air Ram Bucket Pump

Possible Causes of Seized Threaded Stem Plug Valves

- Lack of maintenance: the valve needs sealant as a mechanical component to lift the plug and to lubricate.
- Infrequent maintenance, the original sealant may have washed away or broken down.
- Rust on the threaded stem.
- Plug is out of adjustment due to tampering.

Troubleshooting Tips

1. Inject Sealweld® Valve Cleaner Plus, this will soften old dried sealant and clear passages. Allow to soak for a while, 1/2 hour to overnight if possible. Approximately 1-1/2 ounces per inch of valve size. Try to cycle valve to distribute cleaner around plug.
2. Inject Sealweld® Total-Lube # 911 to displace cleaner, 1-1/2 ounces per inch of size. Try to cycle the valve. If the valve will not cycle, but will take cleaner and sealant, the problem is probably in the stem. Wiggle the stem handle, if the stem is seized it will not turn, if the plug is seized you should feel a little play in the handle.
3. The most common reason for seizing is rust on the threaded stem. Spray the top of stem with penetrating oil. If the penetrating oil turns orange, the problem is probably rust on the first few threads.

SAFETY NOTICE: Some propellants contain propane.

4. Try to build a dam with stick grease or putty, fill with penetrating oil and let soak for several days if possible. Try to turn or wiggle the stem to get the oil down into the threads.
5. If the valve will now cycle, but is still tough, remove the stop collar by removing (1 or 2) one or two Allen screws and prying off with wedges or pulley pullers. Turn the stem counter-clockwise (2) two complete cycles to expose the rusted threads. Clean threads with a wire brush or wire wheel and apply anti-seize grease such as Sealweld® Eterna-Lube 1000. Screw the stem back in to the original position, replace the stop collar.
6. If the valve is still hard to turn, the problem could be in the stem packing. The original packing may have been graphite and asbestos fibers and is very hard. If the valve is over-

packed or if the packing has dried out this can make the valve hard to turn. To replace the stem packing consult The Digital HANDBOOK of Valve Lubrication & Maintenance.

7. If the valve is still hard to turn, the adjusting screw on the bottom of the valve may be out of adjustment. Inspect the threaded cap screwed onto the adjusting screw, it should be spot-welded to the bottom cover of the valve. If the weld is intact, the plug should be properly adjusted. If the weld is broken there is no sure way to know where the original setting was. Scribe the cap to mark your original starting position. Put a pipe wrench on the cap to break the spot weld, in many cases the cap is seized onto the adjusting screw due to rust. When you attempt to unscrew the cap the adjusting screw may also turn.
8. Remove the cap, scribe the adjusting screw position on the bottom plate.
9. Back the adjusting screw off (1 or 2) one or two turns and inject additional quantities of Sealweld® Total-Lube # 911. You may hear the plug “pop” out of its seat and the valve will become easy to turn.
10. Return the adjusting screw to the original position or if the correct position is unknown, tighten the adjusting screw as tight as possible, then back off 1/8th turn.
11. Top up with a small amount of sealant and cycle the valve to ensure complete coverage and ease of operation.

6 - Repair Parts

How to Order Air Ram Bucket Pump Parts

Illustration #	Description	Part #	Kit #	Qty. Req'd
1	Air Motor Complete	R-RG-01		1
2	Retainer	R-RG-02		1
3	Throttle Valve	R-RG-03		1
4	Relief Valve	R-RG-04		1
5	Air Tube	R-RG-05		1
6	Male Connector	R-RG-06		1
7	Air Nipple	R-A8-15A		1
8	Ram Needle Valve	R-RG-08	K-4	1
9	O-Ring	R-RG-09	K-4	1
10	Gasket	R-RG-10	K-4	1
11	O-Ring # 11	R-RG-11	K-4	6
12	Yoke	R-RG-12		1
13	Hex Head Cap Screw	R-RG-13		2
14	Socket Head Cap Screw	R-RG-14		4
15	Lock Washer # 15	R-RG-15		3
16	Yoke Retaining Screw	R-RG-16		2
17	Air Coupler	R-A8-14H		1
18	Base	R-RG-18		1
19	Cylinder	R-RG-19		2
20	Cylinder Head	R-RG-20		2
21	Cylinder Gasket	R-RG-21	K-4	2
22	Piston Rod # 22	R-RG-22		2

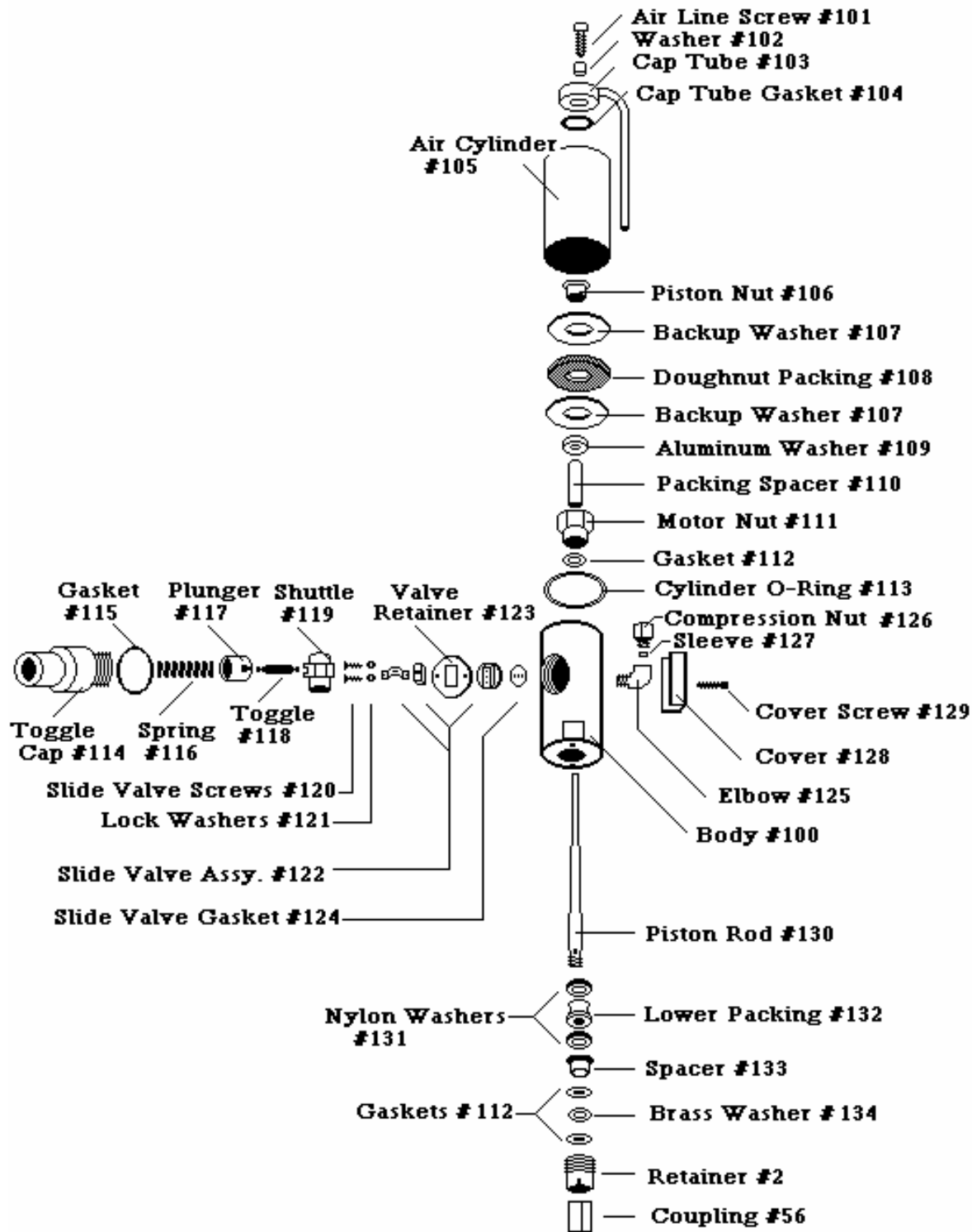
Illustration #	Description	Part #	Kit #	Qty. Req'd
23	Piston Retaining Screw	R-RG-23		2
24	O-Ring	R-RG-24	K-4	2
25	Piston Retaining Washer	R-RG-25		2
26	Piston Packings	R-RG-26	K-4	2
27	Retaining Ring	R-RG-27	K-4	4
28	O-Ring # 28	R-RG-28	K-4	2
29	O-Rings	R-RG-29	K-4	2
30	Restrictor Ell Assembly	R-RG-30		1
33	Pump Body	R-RG-33		1
34	Follower Plate	R-RG-34		1
35	Follower O-Ring	R-RG-35	K-4	1
36	Downtube Assembly	R-RG-36		1
37	Roll Pin	R-RG-37	K-5	3
38	Piston Rod	R-RG-38		1
39	Rod/ Valve Assembly	R-RG-39	K-5	1
42	Tube Extension	R-RG-42		1
43	Stop Washer	R-RG-43	K-5	1
45	Steel Ball	R-RG-45	K-5	1
46	Hex Nut	R-RG-46	K-5	1
47	Primer Rod Pin	R-RG-47	K-5	1
48	Cotter Pin	R-RG-48	K-5	1
49	Steel Washer	R-RG-49	K-5	1
50	Valve Seat	R-RG-50	K-5	1
51	Gasket # 51	R-RG-51	K-5	1
52	Lock Washer	R-RG-52	K-5	1
53	Extension	R-RG-53		1
54	Primer Body	R-RG-54		1
55	Piston & Cylinder	R-RG-55	K-5	1
56	Coupling	R-RG-56		1
57	Spring	R-RG-57	K-5	1
58	Coupling	R-RG-58		1
59	Piston Plug	R-RG-59	K-5	1
60	Nipple	R-A8-15A		2
61	Gaskets	R-RG-61	K-5	2

Illustration #	Description	Part #	Kit #	Qty. Req'd
62	Gasket # 62	R-RG-62	K-5	1
63	Yoke Retaining Washer	R-RG-63		1
64	Piston Rod Packing	R-RG-64	K-5	1
65	Piston Retaining Washer	R-RG-65		2
66	Valve Screw	R-RG-66	K-4	1
67	Vent Valve	R-RG-67		1
68	Pressure Gauge	R-RG-68		1
69	High-Pressure Hose	S-120XHP		1
70	"L" Swivel	H-SV-L1		1
71	Straight Swivel	H-SV-ST1		1
72	Giant Buttonhead Coupler	H-CPSG-2		1
75	Handle	R-RG-75		1
76	Can Shield	R-RG-76		1
78	Kick Stands	R-RG-78	K-1	2
79	Axles	R-RG-79	K-2	2
81	Spring	R-RG-81	K-1	1
82	Retaining Rings	R-RG-82	K-2	2
83	Release Valve	H-RVAB		1
84	Wheels	R-RG-84	K-2	2
85	1/2" Lock Washers	R-RG-85	K-2	2
86	3/8" - 16 x 1/2" Screws	R-RG-86	K-2	2
87	5/16" Washer	R-RG-87	K-1	1
88	3/8" Lock Washer	R-RG-88	K-1	1
89	3/8" - 16 x 2" Screw	R-RG-89	K-1	1
90	3/8" - 16 Nut	R-RG-90	K-1	1
92	5/16" Lock Washer	R-RG-92		3
94	5/16" - 18 Screw	R-RG-94	K-1	1
100	Air Motor Body	R-RG-100		1
101	Air Line Screw	R-RG-101		1
102	Flat Washer	R-RG-102	K-3	1
103	Cap Tube	R-RG-103		1
104	Cap Tube Gasket	R-RG-104	K-3	1
105	Air Cylinder	R-RG-105		1
106	Piston Nut	R-RG-106		1

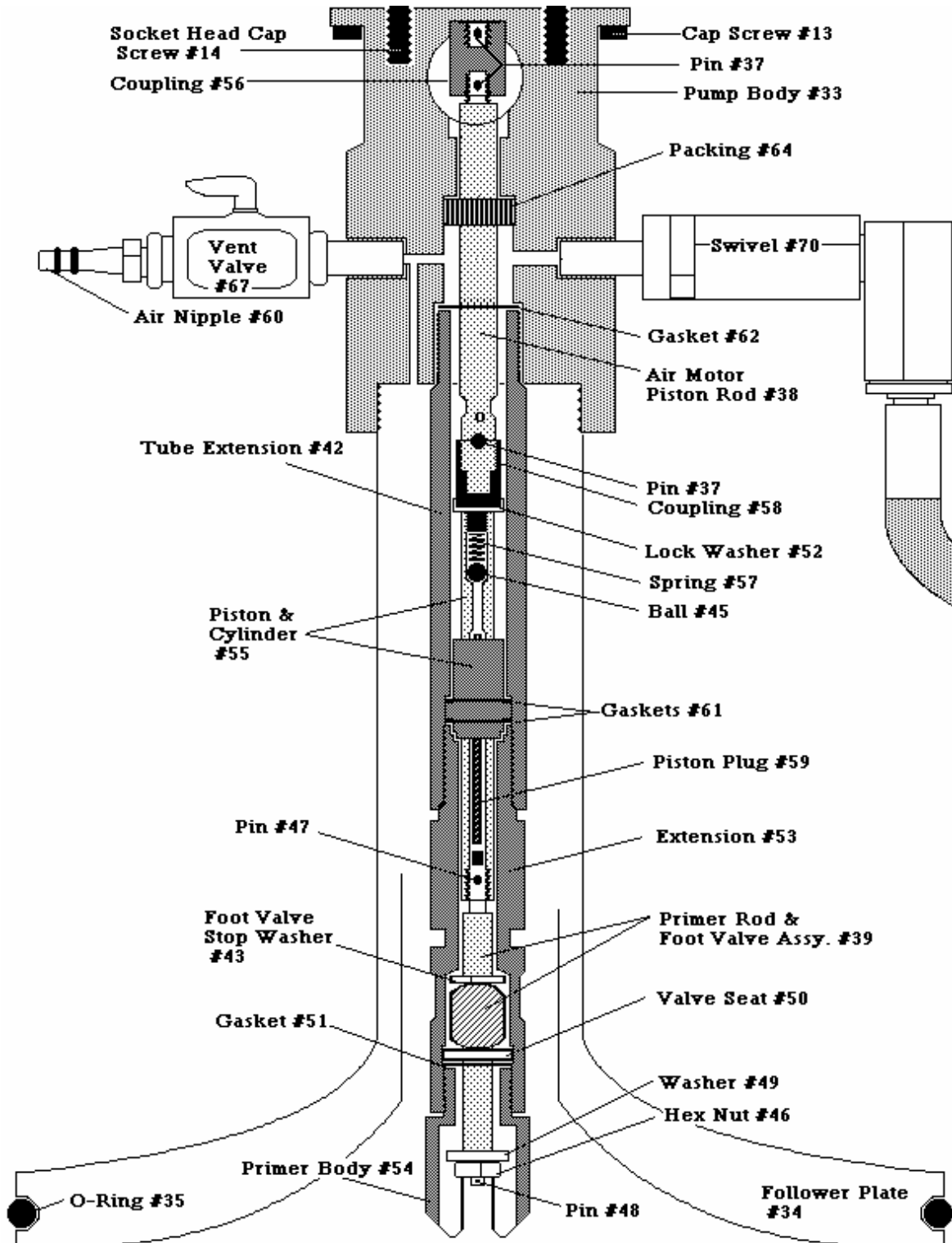
Illustration #	Description	Part #	Kit #	Qty. Req'd
107	Back-Up Washer	R-RG-107		2
108	Doughnut Packing	R-RG-108	K-3	1
109	Aluminum Washer	R-RG-109		1
110	Packing Spacer	R-RG-110		1
111	Motor Nut	R-RG-111	K-3	1
112	Gasket # 112	R-RG-112	K-3	3
113	Cylinder O-Ring	R-RG-113	K-3	1
114	Toggle Cap	R-RG-114		1
115	Toggle Cap Gasket	R-RG-115	K-3	1
116	Toggle Spring	R-RG-116	K-3	1
117	Plunger	R-RG-117		1
118	Toggle	R-RG-118		1
119	Shuttle	R-RG-119		1
120	Slide Valve Screw	R-RG-120	K-3	2
121	Lock Washers	R-RG-121	K-3	2
122	Slide Valve Assembly	R-RG-122	K-3	1
123	Valve Retainer	R-RG-123		1
124	Slide Valve Gasket	R-RG-124	K-3	1
125	Elbow	R-RG-125		1
126	Compression Nut	R-RG-126		1
127	Compression Sleeve	R-RG-127		1
128	Cover	R-RG-128		1
129	Cover Screw	R-RG-129		1
130	Piston Rod	R-RG-130		1
131	Nylon Washers	R-RG-131	K-3	2
132	Lower Packing	R-RG-132	K-3	1
133	Spacer	R-RG-133		1
134	Brass Washer	R-RG-134		1
K-1	Kit # 1 - Kick Stand Kit	R-RG-K1		1
K-2	Kit # 2 - Wheel Repair Kit	R-RG-K2		1
K-3	Kit # 3 - Air Motor Kit	R-RG-K3		1
K-4	Kit # 4 - Minor Repair Kit	R-RG-K4	K-6	1
K-5	Kit # 5 - Downtube Kit	R-RG-K5	K-6	1
K-6	Kit # 6 - Major Repair Kit	R-RG-K6	K-6	1

Parts can be identified by referring to the illustration number. Order parts by the part number is the best way to ensure satisfaction.

Air Motor Parts Breakdown



Follower Detail



This page intentionally blank.

7 - Warranty Information

Air Ram Bucket Pump

Sealweld® warrants its products only against defects in materials and workmanship.

Sealweld Corporation's liability and customer's exclusive remedy under this warranty extends for a period of one (1) year from the date of Sealweld Corporation's shipment and is expressly limited to repayment of purchase price, repair or replacement, at Sealweld Corporation's option, during said period, upon proof satisfactory to Sealweld® and upon customers returning and prepaying all charges on such products to factory or warehouse designated by Sealweld®. Warranty excludes normal wear items such as packings, seals and filters. Also excluded is equipment subject to corrosion, contamination, negligence, accident, or units, which have been altered in any way.

This Warranty is made expressly in lieu of all other warranties, express, implied or statutory, with respect to quality, merchantability, or fitness for a particular purpose.

Contact Us



Sealweld Corporation – Canada

106, 4116 – 64 Ave. S.E.

Calgary, Alberta
CANADA T2C 2B3
TOLL FREE 1-800-661-8465
PHONE 1-403-236-0043
FAX 1-403-236-5487
E-MAIL dean@sealweld.ca
WEB SITE <http://www.sealweld.ca>

Sealweld (USA), Inc.

6450 Skyview Drive
Houston, Texas
USA 77041
TOLL FREE 1-800-624-4301
PHONE 1-713-466-7373
FAX 1-713-466-7778
E-MAIL chad@sealweld.com
WEB SITE <http://www.sealweld.com>

ValvePro® Technical Support

102, 4116 – 64 Ave. S.E.
Calgary, Alberta
CANADA T2C 2B3
PHONE 1-403-236-0043 Mon – Fri 08:00 – 17:00 MST
FAX 1-403-236-5487
E-MAIL support@valvepro.com
WEB SITE <http://www.valvepro.com>

8 - About This Manual

Trademarks and Patents

We trust you will find the lessons detailed in this program useful when maintaining the valves at your facility. Should you have any questions regarding any of these procedures, or if you know of any successful procedures you would like to share, please contact us.

The **Air Ram Bucket Gun Owner's Manual** is written from the maintenance department's point of view and in the language of service people responsible for safe and efficient operation of lubricated plug, ball and gate valves.

The information in this manual is intended as a guide only. **Always** consult the valve manufacturer's recommended maintenance procedures. No warranty is written or implied.

Use of product and/or company names is for reference only.

The **Air Ram Bucket Gun Owner's Manual** is one of the software solutions in the Sealweld® ValvePro® series. Use the components that suit your needs and approach fugitive leakage reduction from the most cost effective approach.

Sealweld®, ValvePro®, ACTIV-8®, SuperGun® and FLOW WOLF® are registered trademarks and/or patents of Sealweld Corporation.

Glossary of Valve Terms©, Copyright Grove Valve & Regulator Company, 1980, 1993.

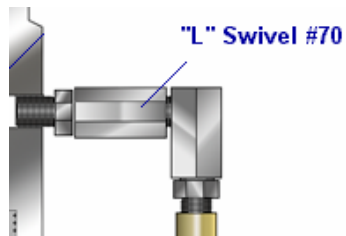
Microsoft®, Windows® and Windows 98® are registered trademarks of Microsoft Corporation.

This page intentionally blank.

Glossary of Terms

“L” Swivel

Order (1) one of part number H-SV-L1. Refer to illustration # 70.



1/2" Lock Washers

Order (2) two of part number R-RG-85, included in Kit # 2 – Wheel Repair Kit.

3/8" - 16 Nut

Order (1) one of part number R-RG-90, included in Kit # 1 – Kick Stand Kit.

3/8" - 16 x 1/2" Screws

Order (2) two of part number R-RG-86, included in Kit # 2 – Wheel Repair Kit.

3/8" - 16 x 2" Screw

Order (1) one of part number R-RG-89, included in Kit # 1 – Kick Stand Kit.

3/8" Lock Washer

Order (1) one of part number R-RG-88, included in Kit # 1 – Kick Stand Kit.

5/16" - 18 Screw

Order (1) one of part number R-RG-94, included in Kit # 1 – Kick Stand Kit.

5/16" Lock Washer

Order (3) three of part number R-RG-92.

5/16" Washer

Order (1) one of part number R-RG-87, included in Kit # 1 – Kick Stand Kit.

ACTIV-8®

The Sealweld ACTIV-8® Gun is the registered trademark of Sealweld Corporation.

Patented in USA, foreign patents pending.



Air Coupler

Order (1) one of part number R-A8-14H.

Air Cylinder

Order (1) one of part number R-RG-105. Refer to illustration # 105.



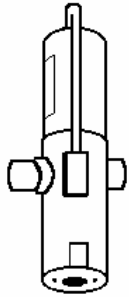
Air Line Screw

Order (1) one of part number R-RG-101. Refer to illustration # 101.

Air Motor Parts Breakdown

Air Motor

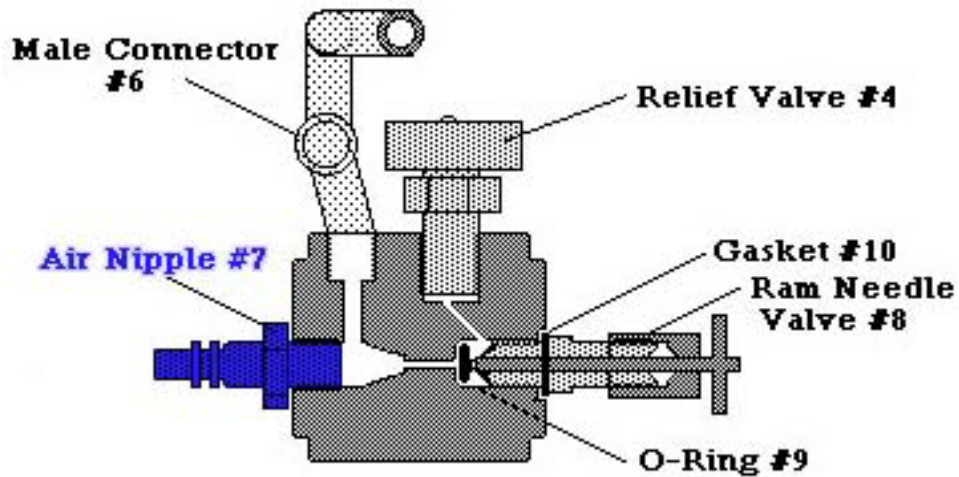
Air Motor Complete - Order (1) one of part number R-RG-01.



Air Motor Complete #1
(Front)

Air Nipple

Order (1) one of part number R-A8-15A. Refer to illustration # 7.



Air Tube

Order (1) one of part number R-RG-05.

Aluminum Washer

Order (1) one of part number R-RG-109. Refer to illustration # 109.

Air Motor Parts Breakdown

Axle

Order (2) two of part number R-RG-79, included in Kit # 2 – Wheel Repair Kit.

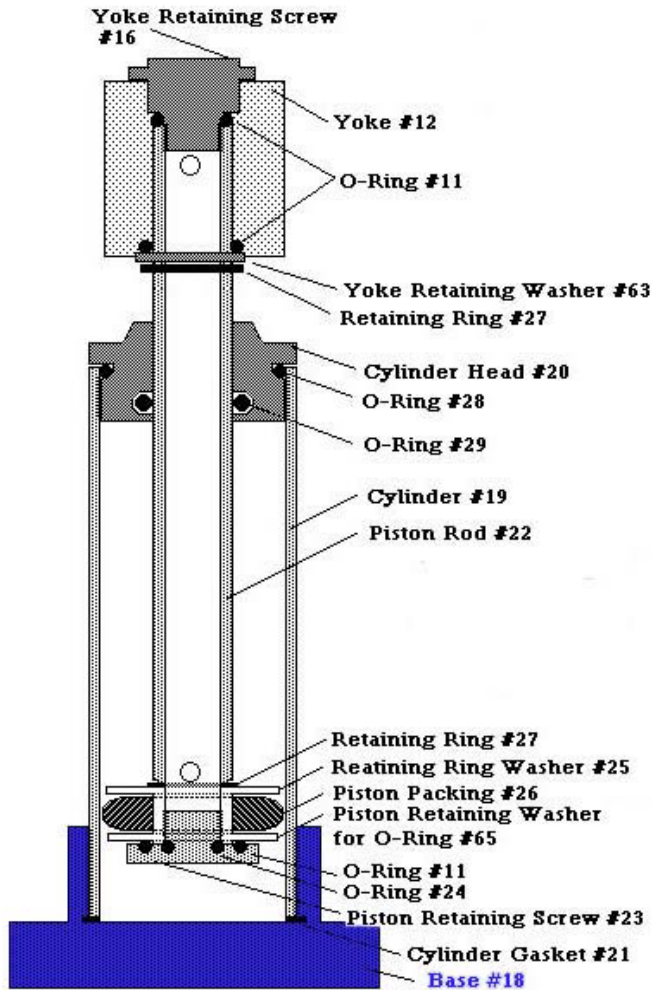
Back-up Washer

Order (2) two of part number R-RG-107. Refer to illustration # 107.

Air Motor Parts Breakdown

Base

Order (1) one of part number R-RG-18. Refer to illustration # 18.



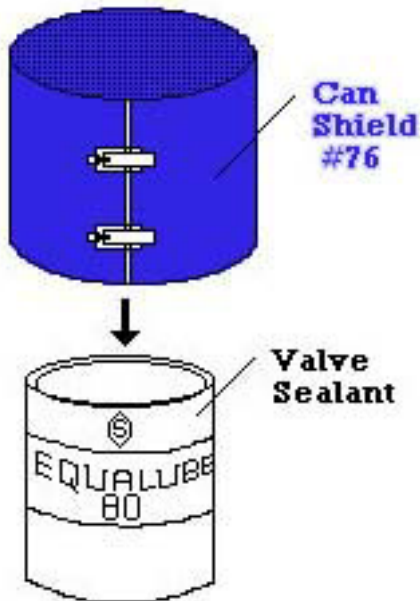
Brass Washer

Order (1) one of part number R-RG-134. Refer to illustration # 134.

Air Motor Parts Breakdown

Can Shield

Order (1) one of part number R-RG-76. Refer to illustration # 76.



Cap Tube

Order (1) one of part number R-RG-103. Refer to illustration # 103.

Air Motor Parts Breakdown

Cap Tube Gasket

Order (1) one of part number R-RG-104, included in Kit # 3 – Air Motor Kit. Refer to illustration # 104.

Air Motor Parts Breakdown

Compression Nut

Order (1) one of part number R-RG-126. Refer to illustration # 126.

Air Motor Parts Breakdown

Compression Sleeve

Order (1) one of part number R-RG-127. Refer to illustration # 127.

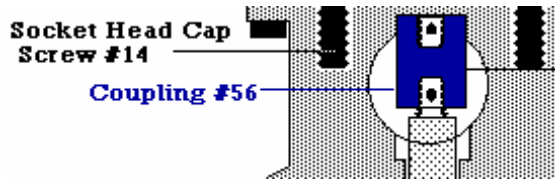
Air Motor Parts Breakdown

Cotter Pin

Order (1) one of part number R-RG-48, included in Kit # 5 – Downtube Kit.

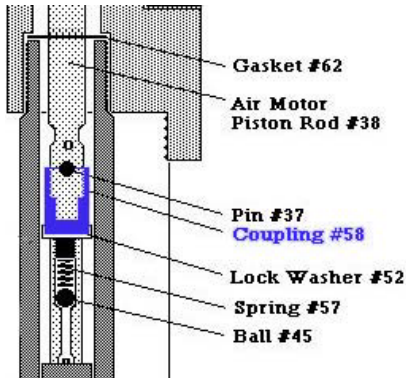
Coupling # 56

Order (1) one of part number R-RG-56. Refer to illustration # 56.



Coupling # 58

Order (1) one of part number R-RG-58. Refer to illustration # 58.



Cover

Order (1) one of part number R-RG-128. Refer to illustration # 128.

Air Motor Parts Breakdown

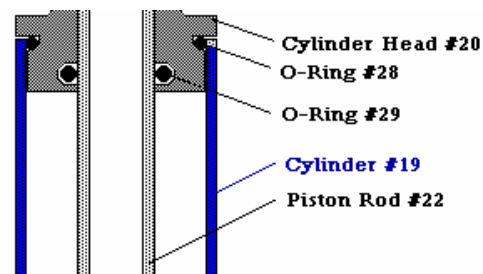
Cover Screw

Order (1) one of part number R-RG-129. Refer to illustration # 129.

Air Motor Parts Breakdown

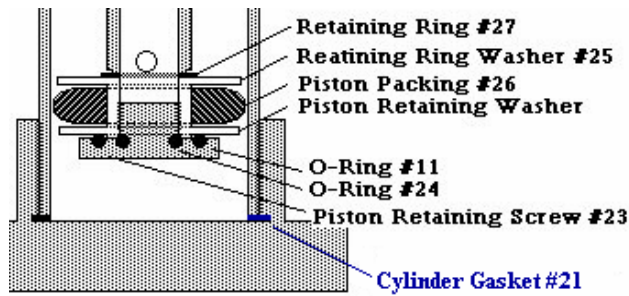
Cylinder

Order (2) two of part number R-RG-19. Refer to illustration # 19.



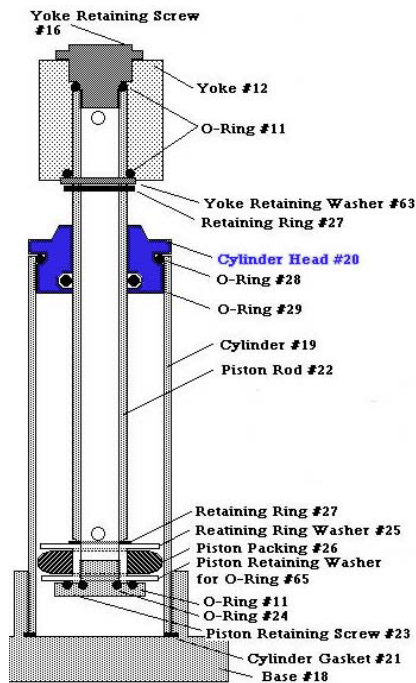
Cylinder Gasket

Order (2) two of part number R-RG-21, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 21.



Cylinder Head

Order (2) two of part number R-RG-20. Refer to illustration # 20.



Cylinder O-Ring

Order (1) one of part number R-RG-113, included in Kit # 3 – Air Motor Kit. Refer to illustration # 113.

Air Motor Parts Breakdown

Doughnut Packing

Order (1) one of part number R-RG-108, included in Kit # 3 – Air Motor Kit. Refer to illustration # 108.

Air Motor Parts Breakdown

Downtube Assembly

Order (1) one of part number R-RG-36.

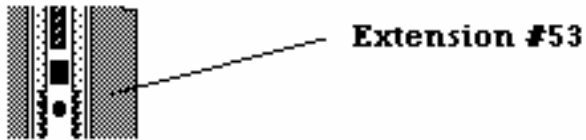
Elbow

Order (1) one of part number R-RG-125. Refer to illustration # 125.

Air Motor Parts Breakdown

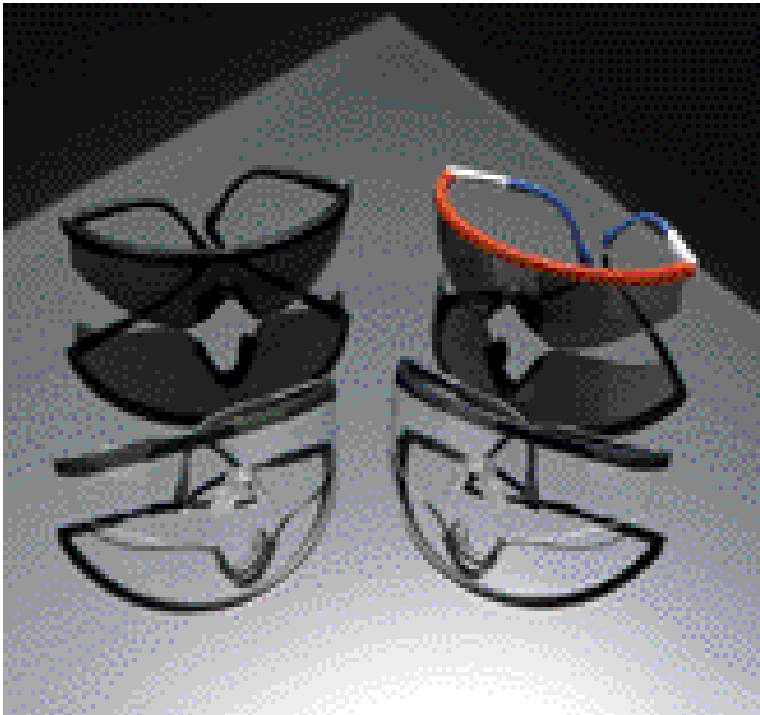
Extension

Order (1) one of part number R-RG-53. Refer to illustration # 53.



Eye Protection

Always wear eye protection when working around high-pressure equipment. A spray of grease which could not pierce skin can do severe damage to soft eye tissue.



Flat Washer

Order (1) one of part number R-RG-102, included in Kit # 3 – Air Motor Kit. Refer to illustration # 102.

Air Motor Parts Breakdown

FLOW WOLF®

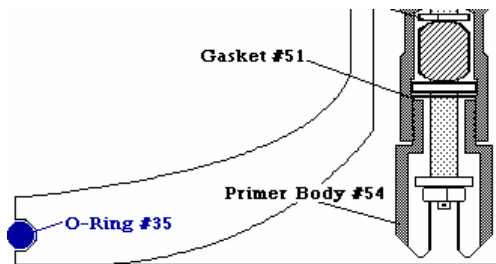
The FLOW WOLF® is a patented sealant injection fitting that is approved for use by major oil and gas companies around the world. The FLOW WOLF® features a special "no crimp" threaded-cage which reduces

the risk of metal fatigue and allows for safe injection of heavy sealing compounds, in turn prolonging the life of the valve.



Follower O-Ring

Order (1) one of part number R-RG-35, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 35.

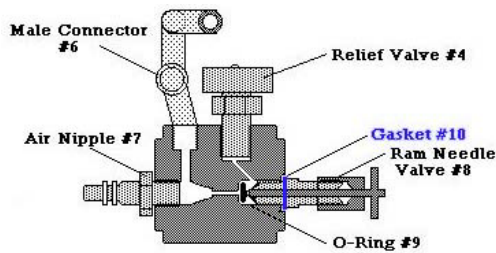


Follower Plate

Order (1) one of part number R-RG-34. Refer to illustration # 34.

Gasket # 10

Order (1) one of part number R-RG-10, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 10.



Gasket # 112

Order (3) three of part number R-RG-112, included in Kit # 3 – Air Motor Kit. Refer to illustration # 112.

Gasket # 51

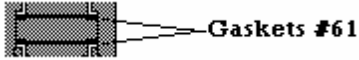
Order (1) one of part number R-RG-51, included in Kit # 5 – Downtube Kit.

Gasket # 62

Order (1) one of part number R-RG-62, included in Kit # 5 – Downtube Kit.

Gaskets

Order (2) two of part number R-RG-61, included in Kit # 5 – Downtube Kit. Refer to illustration # 61.



Giant Buttonhead Coupler

Order (1) one of part number H-CPSG-2. Refer to illustration # 72.

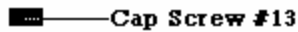


Handle

Order (1) one of part number R-RG-75.

Hex Head Cap Screw

Order (2) two of part number R-RG-13. Refer to illustration # 13.



Hex Nut

Order (1) one of part number R-RG-46, included in Kit # 5 – Downtube Kit. Refer to illustration # 46.

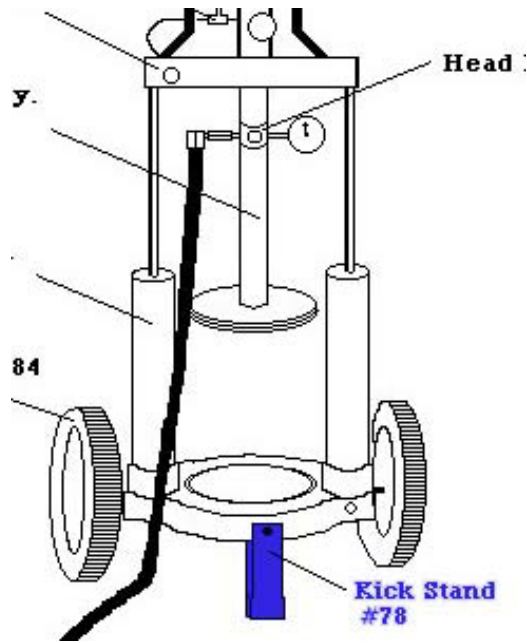


High Pressure Hose

Order (1) one of part number S-120XHP.

Kick Stands

Order (2) two of part number R-RG-78, included in Kit # 1 – Kick Stand Kit. Refer to illustration # 78.



Kit # 1 – Kick Stand Kit

Order part number R-RG-K1.

Includes: (2) kick stands - part number R-RG-78, (1) spring - part number R-RG-81, (1) 5/16" washer - part number R-RG-87, (1) 3/8" lock washer - part number R-RG-88, (1) 3/8" - 16 x 2" screw - part number R-RG-89, (1) 3/8" - 16 nut - part number R-RG-90 and (1) 5/16" - 18 screw - part number R-RG-94.

Kit # 2 – Wheel Repair Kit

Order part number R-RG-K2.

Includes: (2) axles - part number R-RG-79, (2) retaining rings - part number R-RG-82, (2) wheels - part number R-RG-84, (2) 1/2" lock washers - part number R-RG-85 and (2) 3/8" - 16 x 1/2 screws - part number R-RG-86.

Kit # 3 – Air Motor Kit

Order part number R-RG-K3.

Includes: (1) flat washer - part number R-RG-102, (1) cap tube gasket - part number R-RG-104, (1) doughnut packing - part number R-RG-108, (1) motor nut - part number R-RG-111, (3) gaskets - part number R-RG-112, (1) cylinder O-ring - part number R-RG-113, (1) toggle cap gasket - part number R-RG-115, (1) toggle spring - part number R-RG-116, (2) slide valve screws - part number R-RG-120, (2) lock washers - part number R-RG-121, (1) slide valve assembly - part number R-RG-122, (1) slide valve gasket - part number R-RG-124, (2) nylon washers - part number R-RG-131 and (1) lower packing - part number R-RG-132.

Kit # 4 – Minor Repair Kit

Order part number R-RG-K4.

Includes: (1) ram needle valve - part number R-RG-08, (1) O-ring - part number R-RG-09, (1) gasket - part number R-RG-10, (6) O-rings - part number R-RG-11, (2) cylinder gaskets - part number R-RG-21, (2) O-rings - part number R-RG-24, (2) piston packings - part number R-RG-26, (4) retaining ring - part number R-

RG-27, (2) O-rings - part number R-RG-28, (2) O-rings - part number R-RG-29, (1) follower O-ring - part number R-RG-35 and (1) valve screw - part number R-RG-66.

Kit # 5 – Downtube Kit

Order part number R-RG-K5.

Includes: (3) roll pins - part number R-RG-37, (1) rod/ valve assembly - part number R-RG-39, (1) stop washer - part number R-RG-43, (1) steel ball - part number R-RG-45, (1) hex nut - part number R-RG-46, (1) primer rod pin - part number R-RG-47, (1) cotter pin - part number R-RG-48, (1) steel washer - part number R-RG-49, (1) valve seat - part number R-RG-50, (1) gasket - part number R-RG-51, (1) lock washer - part number R-RG-52, (1) piston & cylinder - part number R-RG-55, (1) spring - part number R-RG-57, (1) piston plug - part number R-RG-59, (2) gaskets - part number R-RG-61, (1) gasket - part number R-RG-62 and (1) piston rod packing - part number R-RG-64.

Kit # 6 – Major Repair Kit

Refer to part number R-RG-K6.

Includes: (1) Kit # 4 – Minor Repair Kit part number R-RG-K4 and (1) Kit # 5 – Downtube Kit part number R-RG-K5.

Lock Washer

Order (1) one of part number R-RG-52, included in Kit # 5 – Downtube Kit. Refer to illustration # 52.



Lock Washer #52

Lock Washer # 15

Order (3) three of part number R-RG-15. Refer to illustration # 15.

Lock Washers

Order (2) two of part number R-RG-121, included in Kit # 3 – Air Motor Kit. Refer to illustration # 121.

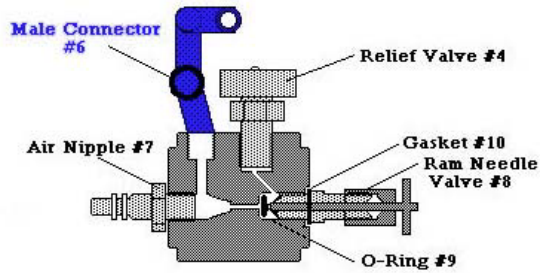
Air Motor Parts Breakdown

Lower Packing

Order (1) one of part number R-RG-132, included in Kit # 3 – Air Motor Kit. Refer to illustration # 132.

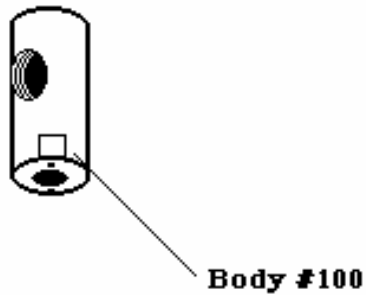
Male Connector

Order (1) one of part number R-RG-06. Refer to illustration # 6.



Motor Body

Air Motor Body - Order (1) one of part number R-RG-100. Refer to illustration # 100.



Motor Nut

Order (1) one of part number R-RG-111, included in Kit # 3 – Air Motor Kit. Refer to illustration # 111.

Air Motor Parts Breakdown

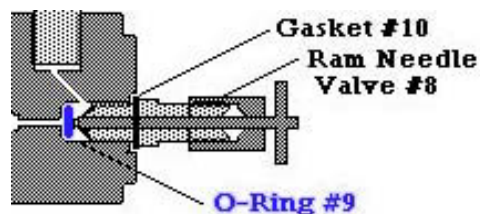
Nylon Washers

Order (2) two of part number R-RG-131, included in Kit # 3 – Air Motor Kit. Refer to illustration # 131.

Air Motor Parts Breakdown

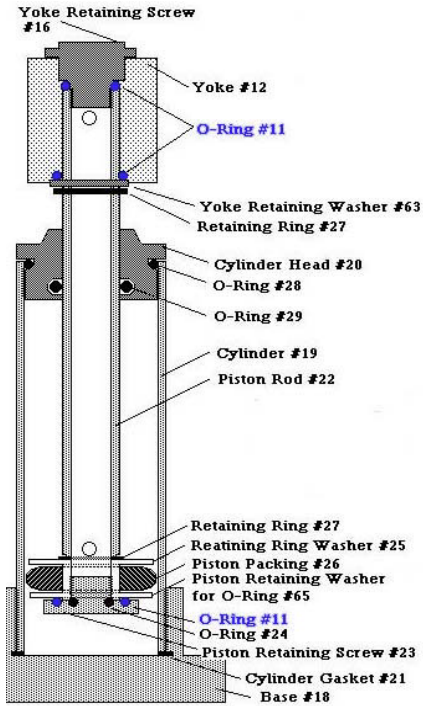
O-Ring

Order (1) one of part number R-RG-09, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 9.



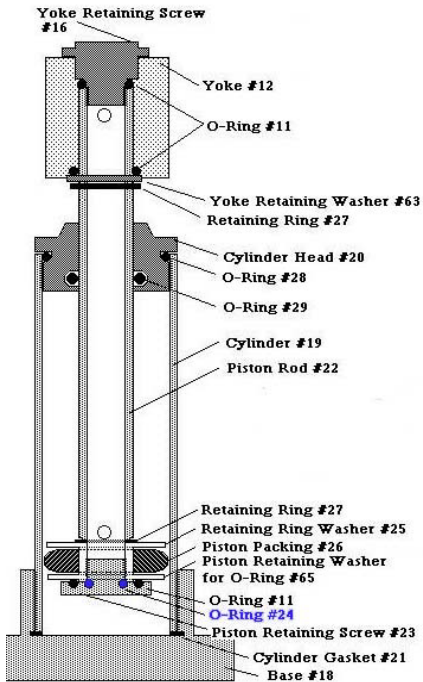
O-Ring # 11

Order (6) six of part number R-RG-11, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 11.



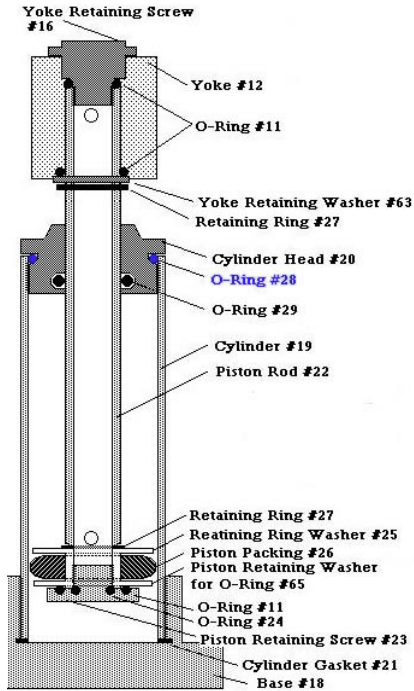
O-Ring # 24

Order (2) two of part number R-RG-24, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 24.



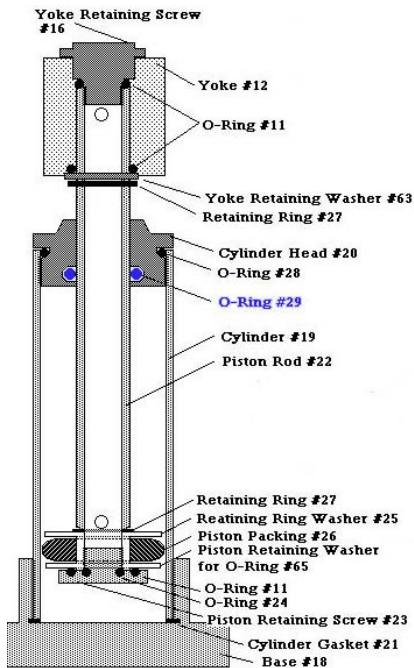
O-Ring # 28

Order (2) two of part number R-RG-28, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 28.



O-Rings

Order (2) two of part number R-RG-29, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 29.



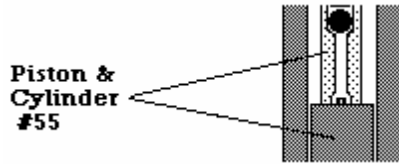
Packing Spacer

Order (1) one of part number R-RG-110. Refer to illustration # 110.

Air Motor Parts Breakdown

Piston & Cylinder

Order (1) one of part number R-RG-55, included in Kit # 5 – Downtube Kit. Refer to illustration # 55.



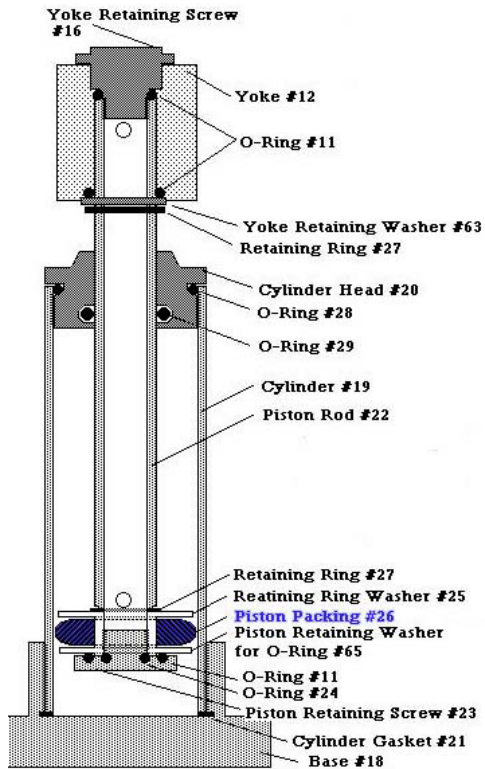
Piston Nut

Order (1) one of part number R-RG-106. Refer to illustration # 106.

Air Motor Parts Breakdown

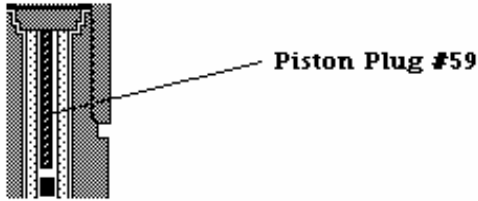
Piston Packings

Order (2) one of part number R-RG-26, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 26.



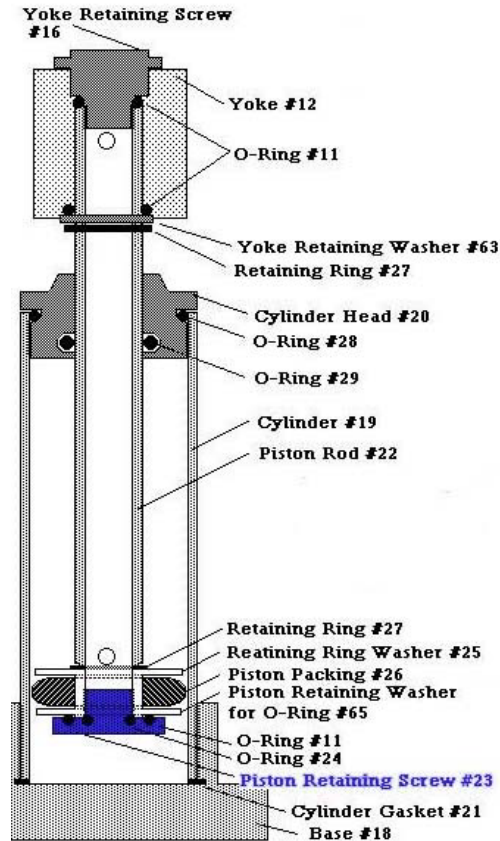
Piston Plug

Order (1) one of part number R-RG-59, included in Kit # 5 – Downtube Kit. Refer to illustration # 59.



Piston Retaining Screw

Order (2) two of part number R-RG-23. Refer to illustration # 23.



Piston Rod

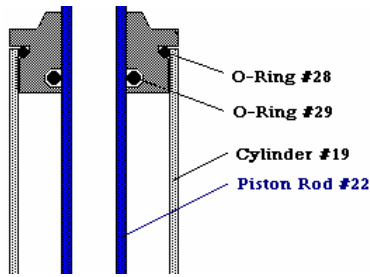
Order (1) one of part number R-RG-38. Refer to illustration # 38.

Piston Rod Packing

Order (1) one of part number R-RG-64, included in Kit # 5 – Downtube Kit.

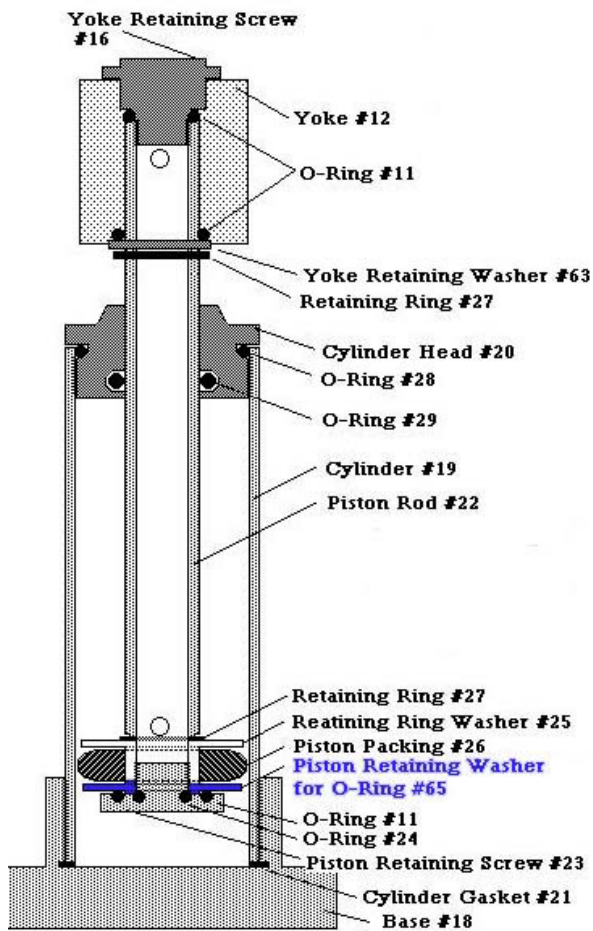
Piston Rods

Order (2) two of part number R-RG-22. Refer to illustration # 22.



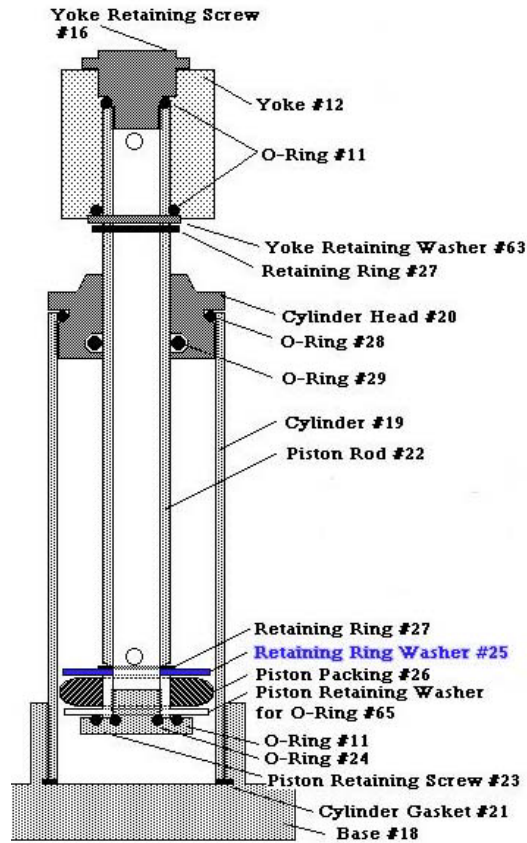
Piston Washer

Order (2) two of part number R-RG-65. Refer to illustration # 65.



Piston Washers

Piston Retaining Washers - Order (2) two of part number R-RG-25. Refer to illustration # 25.



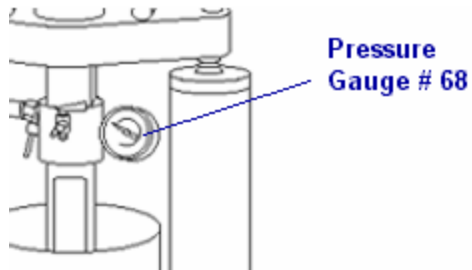
Plunger

Order (1) one of part number R-RG-117. Refer to illustration # 117.

Air Motor Parts Breakdown

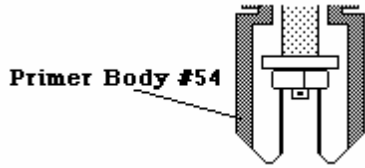
Pressure Gauge

Order (1) one of part number R-RG-68. Refer to illustration # 68.



Primer Body

Order (1) one of part number R-RG-54. Refer to illustration # 54.

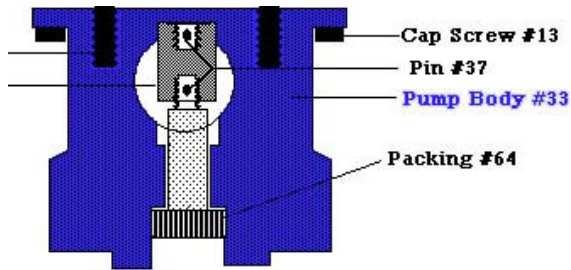


Primer Rod Pin

Order (1) one of part number R-RG-47, included in Kit # 5 – Downtube Kit.

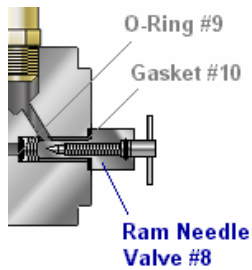
Pump Body

Order (1) one of part number R-RG-33. Refer to illustration # 33.



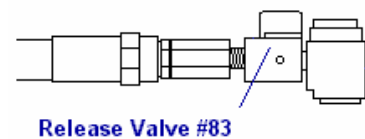
Ram Needle Valve

Order (1) one of part number R-RG-08, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 8.



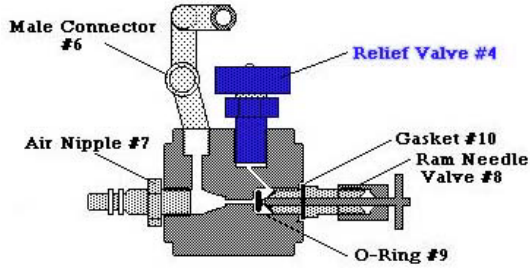
Release Valve

Order (1) one of part number H-RVAB. Refer to illustration #83.



Relief Valve

Order (1) one of part number R-RG-04. Refer to illustration # 4.

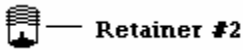


Restrict EII Assembly

Order (1) one of part number R-RG-30.

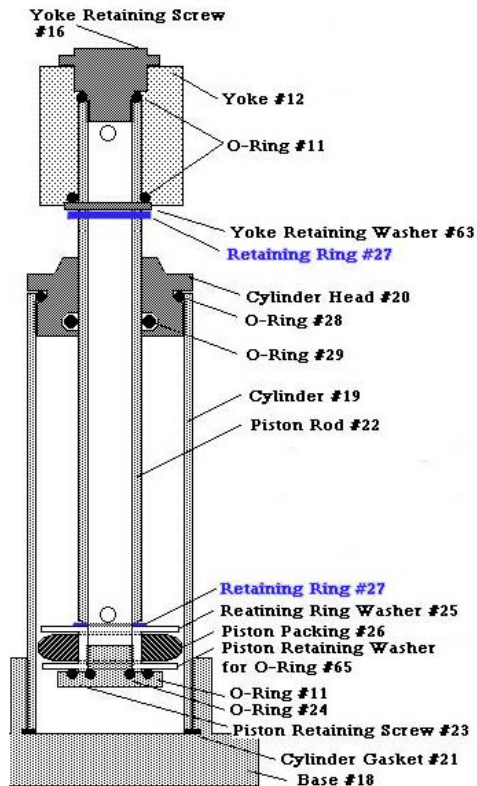
Retainer

Order (1) one of part number R-RG-02. Refer to illustration # 2.



Retaining Ring

Order (4) four of part number R-RG-27, included in Kit # 4 – Minor Repair Kit. Refer to illustration # 27.



Retaining Rings

Order (2) two of part number R-RG-82, included in Kit # 2 – Wheel Repair Kit.

Rod

Piston Rod - Order (1) one of part number R-RG-130. Refer to illustration # 130.

Air Motor Parts Breakdown

Rod/ Valve Assembly

Order (1) one of part number R-RG-39, included in Kit # 5 – Downtube Kit. Refer to illustration # 39.

Roll Pins

Order (3) three of part number R-RG-37, included in Kit # 5 – Downtube Kit. Refer to illustration # 37.

Sealweld® Eterna-Lube 1000

Sealweld® Eterna-Lube 1000 provides an insoluble film of anti-seize lubricant to protect seal faces and reduce torque requirements. Use in ball, gate and plug valves in high temperature service. Ideal for use in valve stems and gearboxes as a waterproof all season lubricant. Use on all threaded connections as a superior anti-seize compound.

Sealweld® Total-Lube # 911

Sealweld® Total-Lube # 911 provides an insoluble film of synthetic lubricant to protect seal faces and reduce torque requirements. Microscopic particles of PTFE will seal minor scratches to sealing surfaces and shallow corrosion pits. Use in ball, gate and plug valves as well as orifice fittings.

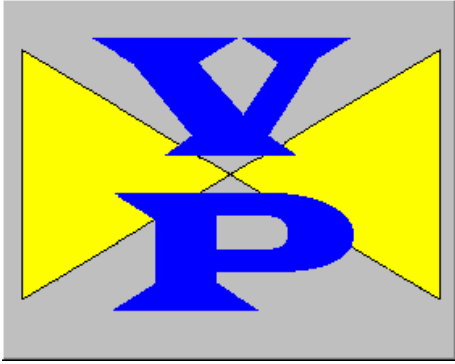


Sealweld® Valve Cleaner Plus

Sealweld® Valve Cleaner Plus is designed to be injected into valves that are hard to turn or will not seal properly. Use in ball, gate and plug valves as well as orifice fittings. Cleans important seal faces and sealant passages. Soften old greases that have dried-out by dehydrated natural gas and/or condensate. Removes residual buildup from seal faces.

Sealweld® ValvePro®

Sealweld® has over 30 years of real-world experience sealing valves in more than 25 countries worldwide. This experience is being documented as ValvePro®, a series of computer-based training software solutions to learning how to enhance pipeline integrity, safely and economically.



Shuttle

Order (1) one of part number R-RG-119. Refer to illustration # 119.

Air Motor Parts Breakdown

Slide Valve Assembly

Order (1) one of part number R-RG-122, included in Kit # 3 – Air Motor Kit. Refer to illustration # 122.

Air Motor Parts Breakdown

Slide Valve Gasket

Order (1) one of part number R-RG-124, included in Kit # 3 – Air Motor Kit. Refer to illustration # 124.

Air Motor Parts Breakdown

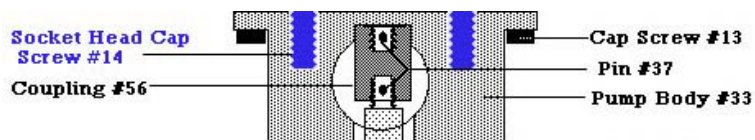
Slide Valve Screw

Order (2) two of part number R-RG-120, included in Kit # 3 – Air Motor Kit. Refer to illustration # 120.

Air Motor Parts Breakdown

Socket Head Cap Screw

Order (4) four of part number R-RG-14. Refer to illustration # 14.



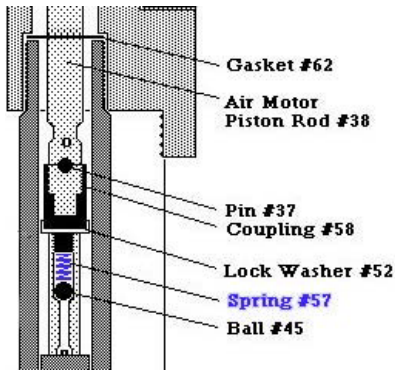
Spacer

Order (1) one of part number R-RG-133. Refer to illustration # 133.

Air Motor Parts Breakdown

Spring

Order (1) one of part number R-RG-57, included in Kit # 5 – Downtube Kit. Refer to illustration # 57.

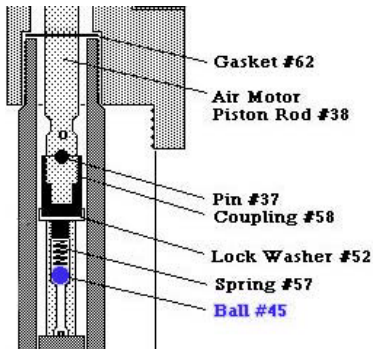


Spring # 81

Order (1) one of part number R-RG-81, included in Kit # 1 – Kick Stand Kit.

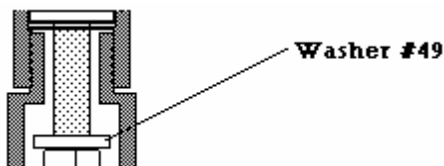
Steel Ball

Order (1) one of part number R-RG-45, included in Kit # 5 – Downtube Kit. Refer to illustration # 45.



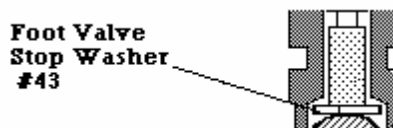
Steel Washer

Order (1) one of part number R-RG-49, included in Kit # 5 – Downtube Kit. Refer to illustration # 49.



Stop Washer

Order (1) one of part number R-RG-43, included in Kit # 5 – Downtube Kit. Refer to illustration # 43.

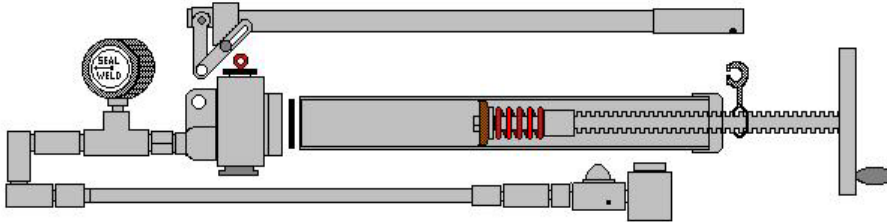


Straight Swivel

Order (1) one of part number H-SV-ST1.

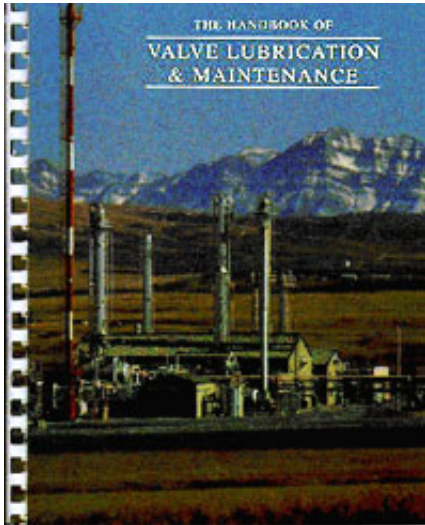
SuperGun®

The SuperGun® is a hand-held manual sealant injection gun which can generate up to 15,000 psi if required. The SuperGun® was developed by Sealweld® in an effort to correct design deficiencies in the older styles of screw-primed guns.



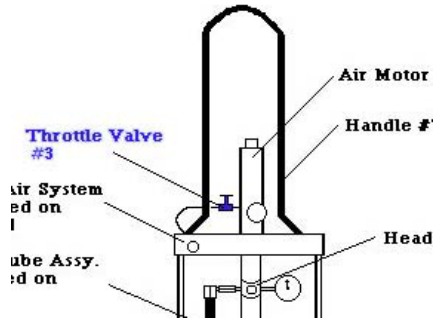
The Digital HANDBOOK of Valve Lubrication & Maintenance

Originally published in 1992, The Handbook of Valve Lubrication and Maintenance is also available in Windows® Help format and is included with ValvePro® - the Valve Technician Certification Program. Contact Sealweld® for more information.



Throttle Valve

Order (1) one of part number R-RG-03. Refer to illustration # 3.



Toggle

Order (1) one of part number R-RG-118. Refer to illustration # 118.

Air Motor Parts Breakdown

Toggle Cap

Order (1) one of part number R-RG-114. Refer to illustration # 114.

Air Motor Parts Breakdown

Toggle Cap Gasket

Order (1) one of part number R-RG-115, included in Kit # 3 – Air Motor Kit. Refer to illustration # 115.

Air Motor Parts Breakdown

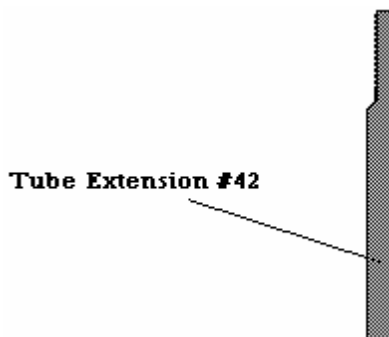
Toggle Spring

Order (1) one of part number R-RG-116, included in Kit # 3 – Air Motor Kit. Refer to illustration # 116.

Air Motor Parts Breakdown

Tube Extension

Order (1) one of part number R-RG-42. Refer to illustration # 42.



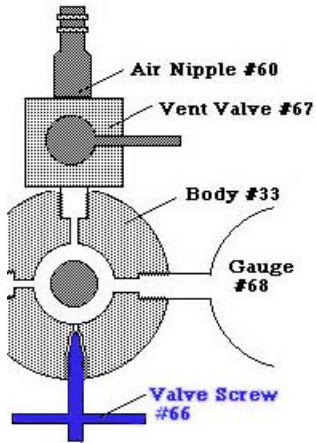
Valve Retainer

Order (1) one of part number R-RG-123. Refer to illustration # 123.

Air Motor Parts Breakdown

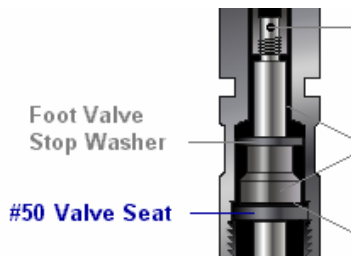
Valve Screw

Order (1) one of part number R-RG-66, included in Kit # 6. Refer to illustration # 66.



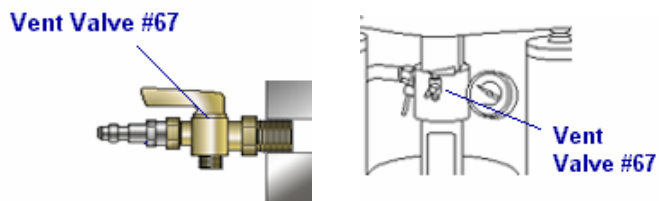
Valve Seat

Order (1) one of part number R-RG-50, included in Kit # 5 – Downtube Kit. Refer to illustration # 50.



Vent Valve

Order (1) one of part number R-RG-67. Refer to illustration # 67.



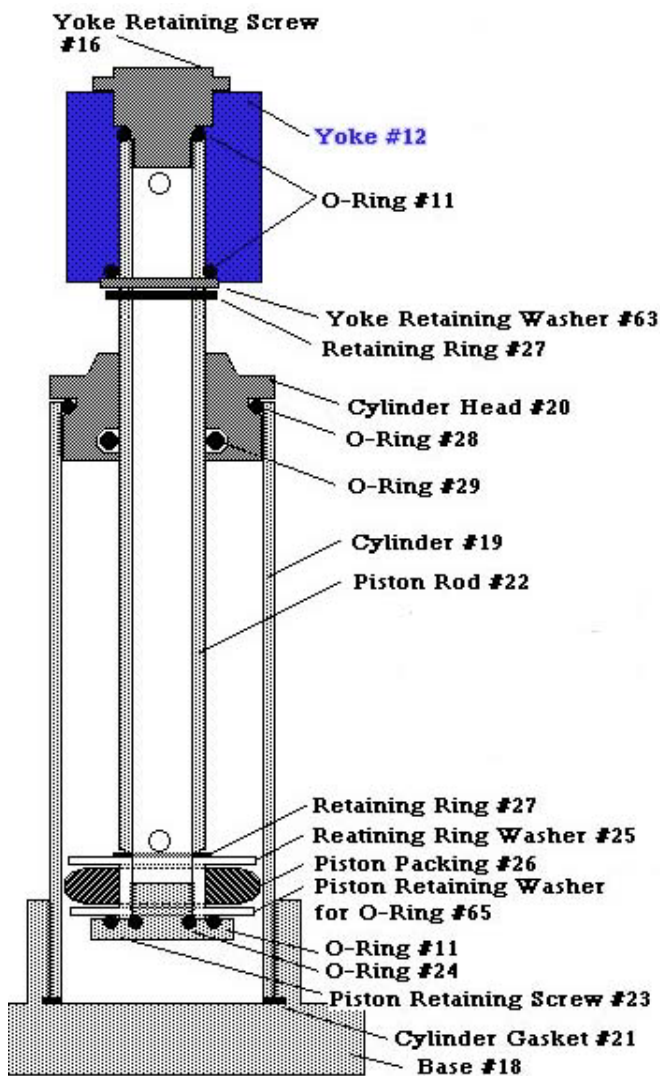
Wheels

Order (2) two of part number R-RG-84, included in Kit # 2 – Wheel Repair Kit. Refer to illustration # 84.



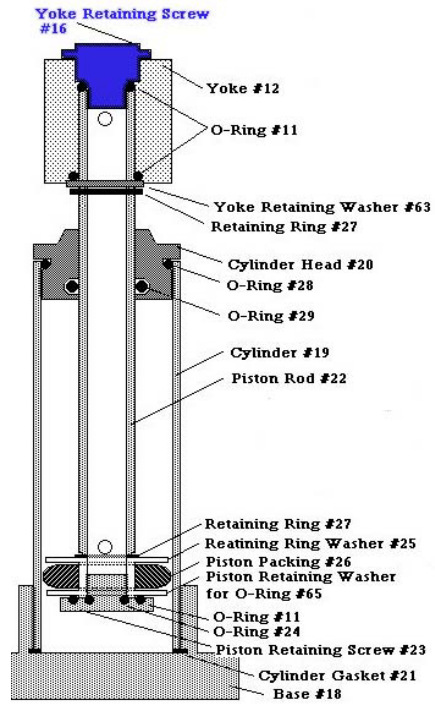
Yoke

Order (1) one of part number R-RG-12. Refer to illustration # 12.



Yoke Retaining Screw

Order (2) two of part number R-RG-16. Refer to illustration # 16.



Yoke Retaining Washer

Order (1) one of part number R-RG-63. Refer to illustration # 63.

